

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	2	10/773404	US-PGPUB; USPAT	OR	ON	2006/10/31 10:46
S2	278	((HARUKAZU) near2 (MIYAMOTO)). INV.	US-PGPUB; USPAT	OR	ON	2006/10/31 10:59
S3	7	((KOICHIRO) near2 (NISHIMURA)). INV.	US-PGPUB; USPAT	OR	ON	2006/10/31 10:59
S4	284	S2 or S3	US-PGPUB; USPAT	OR	ON	2006/10/31 11:00
S5	21	((HARUKAZU) near2 (MIYAMOTO)). INV.	EPO; JPO; DERWENT	OR	ON	2006/10/31 11:00
S6	47	((KOICHIRO) near2 (NISHIMURA)). INV.	EPO; JPO; DERWENT	OR	ON	2006/10/31 11:00
S7	68	S5 or S6	EPO; JPO; DERWENT	OR	ON	2006/10/31 11:03
S9	134	369/47.4.ccls.	US-PGPUB; USPAT	OR	ON	2006/10/31 11:24
S10	105	369/47.39.ccls.	US-PGPUB; USPAT	OR	ON	2006/10/31 11:23
S11	4610	("lead-in" or "lead in") near2 (area or zone or region)	US-PGPUB; USPAT	OR	ON	2006/10/31 11:25
S12	3932	("lead-out" or "lead out") near2 (area or zone or region)	US-PGPUB; USPAT	OR	ON	2006/10/31 11:25
S13	8067	(CLV or (constant near2 linear near2 velocity)) or (CAV or (constant near2 angl\$5 near2 velocity))	US-PGPUB; USPAT	OR	ON	2006/11/01 15:24
S14	6276	TOC or "table of contents"	US-PGPUB; USPAT	OR	ON	2006/10/31 11:27
S15	156	(control\$5 near5 (speed or velocity or rotation\$4)) with (S11 or S12 or S14)	US-PGPUB; USPAT	OR	ON	2006/10/31 14:27
S16	246	(control\$5 with (speed or velocity or rotation\$4)) with (S11 or S12 or S14)	US-PGPUB; USPAT	OR	ON	2006/10/31 11:28
S17	126	(control\$5 near5 (speed or velocity or rotation\$4)) near10 (S11 or S12 or S14)	US-PGPUB; USPAT	OR	ON	2006/10/31 11:28
S18	76	(control\$5 near5 (speed or velocity or rotation\$4)) near5 (S11 or S12 or S14)	US-PGPUB; USPAT	OR	ON	2006/10/31 11:28
S19	43	S18 and "369".clas.	US-PGPUB; USPAT	OR	ON	2006/10/31 11:36
S20	161	S16 and "369".clas.	US-PGPUB; USPAT	OR	ON	2006/10/31 11:36
S22	13	S16 and (S9 or S10)	US-PGPUB; USPAT	OR	ON	2006/10/31 11:37
S24	47011	linear near2 (speed or velocity or rotation\$4)	US-PGPUB; USPAT	OR	ON	2006/10/31 14:32

## EAST Search History

S29	540	max\$5 near2 linear near2 (speed or velocity or rotation\$4)	US-PGPUB; USPAT	OR	ON	2006/10/31 14:32
S30	772	min\$5 near2 linear near2 (speed or velocity or rotation\$4)	US-PGPUB; USPAT	OR	ON	2006/10/31 14:32
S31	7	(S11 or S12) with (S29 or S30)	US-PGPUB; USPAT	OR	ON	2006/10/31 14:34
S32	7	(S11 or S12) same (S29 or S30)	US-PGPUB; USPAT	OR	ON	2006/10/31 14:33
S33	0	(S14) with (S29 or S30)	US-PGPUB; USPAT	OR	ON	2006/10/31 14:34
S34	0	(S14) same (S29 or S30)	US-PGPUB; USPAT	OR	ON	2006/10/31 14:34
S35	29	(S9 or S10) and (S29 or S30)	US-PGPUB; USPAT	OR	ON	2006/11/01 13:08
S36	3728	(control near2 data) near2 (zone or area or region)	US-PGPUB; USPAT	OR	ON	2006/11/01 10:14
S37	540	max\$5 near2 linear near2 (speed or velocity or rotation\$4)	US-PGPUB; USPAT	OR	ON	2006/11/01 13:08
S38	772	min\$5 near2 linear near2 (speed or velocity or rotation\$4)	US-PGPUB; USPAT	OR	ON	2006/11/01 10:15
S39	11	S36 and (S38 or S37)	US-PGPUB; USPAT	OR	ON	2006/11/01 10:15
S40	2	S36 same (S38 or S37)	US-PGPUB; USPAT	OR	ON	2006/11/01 10:25
S41	47011	linear near2 (speed or velocity or rotation\$4)	US-PGPUB; USPAT	OR	ON	2006/11/01 13:24
S42	46	S36 same S41	US-PGPUB; USPAT	OR	ON	2006/11/01 10:26
S45	4610	("lead-in" or "lead in") near2 (area or zone or region)	US-PGPUB; USPAT	OR	ON	2006/11/01 10:25
S48	280	S45 same S41	US-PGPUB; USPAT	OR	ON	2006/11/01 10:26
S49	133	S45 WITH S41	US-PGPUB; USPAT	OR	ON	2006/11/01 10:27
S50	70	S49 and "369".clas.	US-PGPUB; USPAT	OR	ON	2006/11/01 10:27
S51	133	S45 WITH (S41 or S37 or S38)	US-PGPUB; USPAT	OR	ON	2006/11/01 10:27
S52	165	(S45 or S36) WITH (S41 or S37 or S38)	US-PGPUB; USPAT	OR	ON	2006/11/01 10:27
S53	85	S52 and "369".clas.	US-PGPUB; USPAT	OR	ON	2006/11/01 13:23
S54	134	369/47.4.ccls.	US-PGPUB; USPAT	OR	ON	2006/11/01 13:08
S55	105	369/47.39.ccls.	US-PGPUB; USPAT	OR	ON	2006/11/01 13:08

## EAST Search History

S56	29	(S54 or S55) and (S37 or S38)	US-PGPUB; USPAT	OR	ON	2006/11/01 13:09
S57	464	max\$5 near2 record\$4 near2 (speed or velocity or rotation\$4)	US-PGPUB; USPAT	OR	ON	2006/11/01 13:09
S58	310	min\$5 near2 record\$4 near2 (speed or velocity or rotation\$4)	US-PGPUB; USPAT	OR	ON	2006/11/01 13:08
S59	24	(S54 or S55) and (S57 or S58)	US-PGPUB; USPAT	OR	ON	2006/11/01 13:18
S60	705	max\$5 near2 (record\$4 or write or writing) near2 (speed or velocity or rotation\$4)	US-PGPUB; USPAT	OR	ON	2006/11/01 13:09
S61	373	min\$5 near2 (record\$4 or write or writing) near2 (speed or velocity or rotation\$4)	US-PGPUB; USPAT	OR	ON	2006/11/01 13:09
S62	28	(S54 or S55) and (S60 or S61)	US-PGPUB; USPAT	OR	ON	2006/11/01 13:10
S63	42	("5835462").URPN	USPAT	OR	ON	2006/11/01 13:11
S64	11	(S54 or S55) and (S36)	US-PGPUB; USPAT	OR	ON	2006/11/01 13:22
S65	3296	((inner or outter) near2 periph\$5) or radi\$4) with S41	US-PGPUB; USPAT	OR	ON	2006/11/01 13:23
S66	1238	S65 and "369".clas.	US-PGPUB; USPAT	OR	ON	2006/11/01 13:23
S67	7871	(control or min or max) with (linear near2 (speed or velocity or rotation\$4))	US-PGPUB; USPAT	OR	ON	2006/11/01 14:42
S68	5099	(control) with (linear near2 (speed or velocity or rotation\$4))	US-PGPUB; USPAT	OR	ON	2006/11/01 14:43
S69	37	S68 same S36	US-PGPUB; USPAT	OR	ON	2006/11/01 14:43
S70	8067	(CLV or (constant near2 linear near2 velocity)) or (CAV or (constant near2 angl\$5 near2 velocity))	US-PGPUB; USPAT	OR	ON	2006/11/01 15:24
S71	162	S70 and (S54 or S55)	US-PGPUB; USPAT	OR	ON	2006/11/01 15:25
S72	137	(S70 and (radius or radii or radial)) and (S54 or S55)	US-PGPUB; USPAT	OR	ON	2006/11/01 15:57
S73	11	(S37 and S38) and (S54 or S55)	US-PGPUB; USPAT	OR	ON	2006/11/01 16:05
S74	1143	ATIP	US-PGPUB; USPAT	OR	ON	2006/11/01 16:06
S75	860	S74 and "369".clas.	US-PGPUB; USPAT	OR	ON	2006/11/01 16:05
S76	37	S75 and (S54 or S55)	US-PGPUB; USPAT	OR	ON	2006/11/01 16:06
S77	105	ATIP with velocity	US-PGPUB; USPAT	OR	ON	2006/11/01 16:08

## EAST Search History

S78	100	S77 and "369".clas.	US-PGPUB; USPAT	OR	ON	2006/11/01 16:06
S79	8	S78 and (S54 or S55)	US-PGPUB; USPAT	OR	ON	2006/11/01 16:06
S80	4	ATIP same (S37 or S38)	US-PGPUB; USPAT	OR	ON	2006/11/01 16:08
S81	240	"reflective layer" with (thick\$4 or depth or deep or height) with (increas\$4 or grow\$4)	US-PGPUB; USPAT	OR	ON	2006/11/07 17:05
S82	82	S81 and "369".clas.	US-PGPUB; USPAT	OR	ON	2006/11/07 17:02
S83	1	"reflective layer" with (thick\$4 or depth or deep or height) with (increas\$4 or grow\$4) with (inner or outter)	US-PGPUB; USPAT	OR	ON	2006/11/07 17:06

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	43594	"369" clas.	US-PGPUB; USPAT	OR	ON	2006/11/01 16:24
S2	134	369/47.4.ccls.	US-PGPUB; USPAT	OR	ON	2006/11/01 16:24
S3	105	369/47.39.ccls.	US-PGPUB; USPAT	OR	ON	2006/11/01 16:24
S4	59669	(linear or record\$4) near2 (velocity or speed)	US-PGPUB; USPAT	OR	ON	2006/11/01 16:26
S5	135550	(control near3 (zone or area or region)) or ("lead-in" or "lead in" or "LI") near2 (zone or area or region) or ("lead-out" or "lead out" or "LO") near2 (zone or area or region))	US-PGPUB; USPAT	OR	ON	2006/11/02 09:28
S6	981	max\$5 near2 ((linear or record\$4) near2 (velocity or speed))	US-PGPUB; USPAT	OR	ON	2006/11/01 16:29
S7	1166	min\$5 near2 ((linear or record\$4) near2 (velocity or speed))	US-PGPUB; USPAT	OR	ON	2006/11/01 16:30
S8	349	(stor\$4 or record\$4) with (S6 or S7) with (disk or disc or medium)	US-PGPUB; USPAT	OR	ON	2006/11/01 16:32
S9	267	S8 and S1	US-PGPUB; USPAT	OR	ON	2006/11/02 08:50
S10	9	(stor\$4 or record\$4) with (S6 or S7) with (disk or disc or medium) with (radius or radii)	US-PGPUB; USPAT	OR	ON	2006/11/01 16:35
S11	863314	(radius or radii or radial) or ((inner or outter) near3 (periph\$6 or area or region or zone))	US-PGPUB; USPAT	OR	ON	2006/11/01 16:37
S12	45968	S11 near3 (disk or disc or medium)	US-PGPUB; USPAT	OR	ON	2006/11/01 16:38
S13	815	S12 near10 (S4 or S6 or S7)	US-PGPUB; USPAT	OR	ON	2006/11/01 16:38
S14	21	S12 near10 (S6 or S7)	US-PGPUB; USPAT	OR	ON	2006/11/01 16:38
S16	134	369/47.4.ccls.	US-PGPUB; USPAT	OR	ON	2006/11/02 08:50
S17	105	369/47.39.ccls.	US-PGPUB; USPAT	OR	ON	2006/11/02 08:50
S18	982	max\$5 near2 ((linear or record\$4) near2 (velocity or speed))	US-PGPUB; USPAT	OR	ON	2006/11/02 09:47
S19	1167	min\$5 near2 ((linear or record\$4) near2 (velocity or speed))	US-PGPUB; USPAT	OR	ON	2006/11/02 09:47
S20	349	(stor\$4 or record\$4) with (S18 or S19) with (disk or disc or medium)	US-PGPUB; USPAT	OR	ON	2006/11/02 08:50
S21	26	S20 and (S16 or S17)	US-PGPUB; USPAT	OR	ON	2006/11/02 09:01

## EAST Search History

S22	37	((("ID" or identification) near3 (zone or area or region)) with (linear near2 (velocity or speed)))	US-PGPUB; USPAT	OR	ON	2006/11/02 09:01
S23	141	S18 with S19	US-PGPUB; USPAT	OR	ON	2006/11/02 09:08
S24	43638	"369".clas.	US-PGPUB; USPAT	OR	ON	2006/11/02 09:01
S25	102	S23 and S24	US-PGPUB; USPAT	OR	ON	2006/11/02 09:09
S26	16	S23 and (S16 or S17)	US-PGPUB; USPAT	OR	ON	2006/11/02 09:01
S27	149	S18 same S19	US-PGPUB; USPAT	OR	ON	2006/11/02 09:08
S28	864238	(radius or radii or radial) or ((inner or outter) near3 (periph\$6 or area or region or zone))	US-PGPUB; USPAT	OR	ON	2006/11/02 09:09
S29	48	S18 same S19 same S28	US-PGPUB; USPAT	OR	ON	2006/11/02 09:09
S30	40	S29 and S24	US-PGPUB; USPAT	OR	ON	2006/11/02 09:09
S31	242504	("control data zone" or (control near3 (zone or area or region))) or ((information or "ID" or identification) near2 (zone or area or region)) or (("lead-in" or "lead in" or "LI") near2 (zone or area or region)) or (("lead-out" or "lead out" or "LO") near2 (zone or area or region))	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/11/02 09:31
S32	59736	(linear or record\$4) near2 (velocity or speed)	US-PGPUB; USPAT	OR	ON	2006/11/02 09:32
S33	639	S31 with (S18 or S19 or S32)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/11/02 09:32
S34	398	S33 and S24	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/11/02 09:48
S35	11	S31 with (S18 and S19)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/11/02 09:32
S36	34	S33 and (S16 or S17)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/11/02 09:45
S39	12441	high\$5 near2 ((linear or record\$4) near2 (velocity or speed))	US-PGPUB; USPAT	OR	ON	2006/11/02 09:47
S40	3135	low\$5 near2 ((linear or record\$4) near2 (velocity or speed))	US-PGPUB; USPAT	OR	ON	2006/11/02 09:47
S41	225	interpolat\$5 with (S32 or S18 or S19 or S39 or S40)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/11/02 11:27

## EAST Search History

S42	55	S41 and S24	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/11/02 11:27
S43	48	extrapolat\$5 with (S32 or S18 or S19 or S39 or S40)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/11/02 11:29
S44	14	S43 and S24	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/11/02 11:30
S45	55	(linear near2 approximation) with (S32 or S18 or S19 or S39 or S40)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/11/02 11:29
S46	20	S45 and S24	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/11/02 11:33
S48	8	("20020021639" "20020027848" "20020176341" "20030012088" "20040240350" "5835462" "6469967" "6894961").PN	US-PGPUB; USPAT	OR	ON	2006/11/02 11:55

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	134	369/47.4.ccls	US-PGPUB; USPAT	OR	ON	2006/11/08 10:11
S2	105	369/47.39.ccls.	US-PGPUB; USPAT	OR	ON	2006/11/08 10:11
S5	1941	(interpolat\$4 or extrapolat\$4 or "linear approximation") with ((linear near2 (velocit\$4 or speed\$2)) or (velocit\$4))	US-PGPUB; USPAT	OR	ON	2006/11/08 11:31
S6	2	S5 and (S1 or S2)	US-PGPUB; USPAT	OR	ON	2006/11/08 10:15
S7	3608	(interpolat\$4 or extrapolat\$4 or "linear approximation") same ((linear near2 (velocit\$4 or speed\$2)) or (velocit\$4))	US-PGPUB; USPAT	OR	ON	2006/11/08 10:41
S8	2	S7 and (S1 or S2)	US-PGPUB; USPAT	OR	ON	2006/11/08 11:31
S9	123	S7 and "369".clas.	US-PGPUB; USPAT	OR	ON	2006/11/08 10:14
S10	74	S5 and "369".clas.	US-PGPUB; USPAT	OR	ON	2006/11/08 10:44
S11	5	("CAV" or "constant angular velocity") with ("CLV" or "constant linear velocity") with hybrid	US-PGPUB; USPAT	OR	ON	2006/11/08 10:44
S12	1862	("CAV" or "constant angular velocity") with ("CLV" or "constant linear velocity")	US-PGPUB; USPAT	OR	ON	2006/11/08 10:59
S13	1394	S12 and "369".clas.	US-PGPUB; USPAT	OR	ON	2006/11/08 10:49
S14	80	S12 and (S1 or S2)	US-PGPUB; USPAT	OR	ON	2006/11/08 10:49
S15	108	"PCAV"	US-PGPUB; USPAT	OR	ON	2006/11/08 10:49
S16	20	S15 and "369".clas.	US-PGPUB; USPAT	OR	ON	2006/11/08 10:49
S18	41	("CAV" or "constant angular velocity") with ("CLV" or "constant linear velocity") with ((partial near2 constant near2 angular near2 velocity) or "PCAV" or (partial near2 CAV))	US-PGPUB; USPAT	OR	ON	2006/11/08 11:01
S19	769	(jitter) with ((linear near2 (velocit\$4 or speed\$2)) or (velocit\$4))	US-PGPUB; USPAT	OR	ON	2006/11/08 11:31
S20	5	S19 and (S1 or S2)	US-PGPUB; USPAT	OR	ON	2006/11/08 11:31
S22	4	(reflective near2 layer) with thick\$5 with (increas\$4 or decreas\$4) with (inner or outer)	US-PGPUB; USPAT	OR	ON	2006/11/08 13:37
S23	211	(reflective near2 layer) with thick\$5 with (inner or outer)	US-PGPUB; USPAT	OR	ON	2006/11/08 13:25



## EAST Search History

S24	40	S23 and "369".clas.	US-PGPUB; USPAT	OR	ON	2006/11/08 13:37
S25	174	(reflective near2 layer) same thick\$5 same (increas\$4 or larg\$4 or decreas\$4 or small\$4) same (inner or outer)	US-PGPUB; USPAT	OR	ON	2006/11/08 13:44
S26	37	S25 and "369".clas.	US-PGPUB; USPAT	OR	ON	2006/11/08 13:38
S27	1	(reflective near2 layer) with thick\$5 with ("CAV" or "constant angular velocity")	US-PGPUB; USPAT	OR	ON	2006/11/08 13:44
S28	1	(reflective near2 layer) with thick\$5 same("CAV" or "constant angular velocity")	US-PGPUB; USPAT	OR	ON	2006/11/08 13:45
S29	2	(reflective near2 layer) same thick\$5 same ("CAV" or "constant angular velocity")	US-PGPUB; USPAT	OR	ON	2006/11/08 15:02
S30	2	10/773404	US-PGPUB; USPAT	OR	ON	2006/11/08 15:02